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| APPLICATION NO. FILING DATE | | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------------------|-----------------------|----------------------|---------------------|------------------|--|
| 10/709,686 | 05/22/2004 | Carles Borrego Bel | 8157ES 3685 | | |
| 23688 Bruce E. Haran | 7590 01/03/2007 | EXAMINER | | | |
| PO BOX 872735 | | | TSO, EDWARD H | | |
| VANCOUVE | R, WA 98687-2735 | | ART UNIT | PAPER NUMBER | |
| | | | 2838 | | |
| <u> </u> | | | | | |
| SHORTENED STATUTOR | RY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | | |
| 3 MONTHS | | 01/03/2007 | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| Office Action Summary | | Applicati | on No. | Applicant(s) | | | | |
|--|---|-----------------|-------------------------|--------------------|--|--|--|--|
| | | 10/709,6 | 86 | BORREGO BEL ET AL. | | | | |
| | | Examine | r | Art Unit | | | | |
| | | Edward F | | 2838 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | |
| Status | | | | | | | | |
| 1)🖂 | Responsive to communication(s) filed on <u>07 October 2006</u> . | | | | | | | |
| | This action is FINAL. 2b) ☐ This action is non-final. | | | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | |
| | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposition of Claims | | | | | | | | |
| 4)🖂 | ☑ Claim(s) <u>1-15</u> is/are pending in the application. | | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| _ | Claim(s) is/are allowed. | | | | | | | |
| 6)🛛 | ☐ | | | | | | | |
| | ☑ Claim(s) <u>3,6,7,9 and 13-15</u> is/are objected to. | | | | | | | |
| 8) | Claim(s) are subject to restriction an | d/or election r | equirement. | | | | | |
| Applicati | on Papers | | | | | | | |
| 9)☐ The specification is objected to by the Examiner. | | | | | | | | |
| | 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | | |
| 11) The cath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: | | | | | | | | |
| | 1. Certified copies of the priority documents have been received. | | | | | | | |
| 2. Certified copies of the priority documents have been received in Application No | | | | | | | | |
| | 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| | | | | | | | | |
| Attachmen | | | | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Interview Summary (PTO-413) Paper No(s)/Mail Date | | | | | | | | |
| | nation Disclosure Statement(s) (PTO/SB/08) | | 5) Notice of Informal P | | | | | |
| Paper No(s)/Mail Date 6) Other:, | | | | | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tamai et al. (US 6,275,004). The reference discloses a control power transfer system for an automobile having, *inter alia*, at least two batteries B1...B3 being charged from a generator 23. The batteries are provided with module to control and analyze the state of charge or health of the batteries. A microcontroller determines and controls the switching transfer of charge among the modules.

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 5 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamai et al. (US 6,275,004).

Regarding the use of feeding loads to different parts of the vehicle, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have supplied the different parts of the vehicle with different existing batteries in order to alleviate the stress on the individual battery, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Regarding the use of a disable signal when the vehicle is involved in an accident, it would have been obvious to one having ordinary skill in the art to have supplied a switch to disable the battery during an accident for the purpose of preventing spark and/or fire to the battery. Thus ensure the safety of the occupants in the vehicle.

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Allowable Subject Matter

Claims 3, 6, 7, 9 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 10/7/06 have been fully considered but they are not persuasive in part. Applicant argues the prior art does not disclose or teach specifically a two-way converter. However the independent claims do not show this particular feature. Claims that include this feature have been found to be allowable.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication should be directed to the Examiner at the below-listed number on every Tuesday, Thursday and Saturday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Karl Easthom, can be reached at (571) 272-1989 on Monday-Thursday.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist at (571) 272-2800, Monday-Friday, 8:30am to 5:00pm, EST.

By:

EDWARD H TSO Primary Examiner (571) 272-2087